PATENT ATTORNEY DOCKET NO. 50413/015001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Jong-Yoon CHUN Confirmation No.: 7873

Serial No.: 10/578,521 Art Unit: 1645

Filed: May 8, 2006 Examiner: Not yet assigned

Customer No.: 21559

Title: Method for Amplifying Unknown DNA Sequence Adjacent to Known

Sequence

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

REPLY TO NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE DISCLOSURES

In reply to the Notice to Comply with Requirements for Patent Applications

Containing Nucleotide and/or Amino Acid Sequence Disclosures that was mailed in

connection with the above-captioned application on December 26, 2006, applicant

submits the following:

A substitute paper copy of the Sequence Listing.

A substitute copy of the Sequence Listing in computer readable form.

A statement that the contents of the paper and computer readable forms of the Sequence Listing are the same as one another and contain no new matter.

If there are any charges or any credits, please apply them to Deposit Account No.

03-2095.

Respectfully submitted,

Date: <u>February 23, 200</u>7

Susan M. Muchaud
Susan M. Michaud, Ph.D.

Reg. No. 42,885

Clark & Elbing LLP 101 Federal Street Boston, MA 02110

Telephone: 617-428-0200 Facsimile: 617-428-7045



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Dox 1450 Alexandra, Virguna 22313-1450

			WWW depto-gov	
U.S. APPLICATION NUMBER NO.		FIRST NAMED APPLICANT AT		Y, DOCKET NO.
10/578,521		Jong-Yoon Chun	50413015001	
21559 CLARK & ELBING LLP 101 FEDERAL STREET BOSTON, MA 02110			INTERNATIONAL APPLICATION NO.	
	ACTION DUE Not Comply-S.C.	PCT/KR03/02407		
		I.A. FILING DATE	PRIORITY DATE	
	DUE DATE 226.2007 ESP 6.26.2007		11/10/2003	
	INITIALS		CONFIRMATION NO. 7873 371 FORMALITIES LETTER *OC0000000021732495*	

Date Mailed: 12/26/2006

NOTIFICATION TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant is given TWO MONTHS FROM THE DATE OF THIS NOTICE within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

 The paper or compact disc copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e). Applicant must provide a substitute paper or compact disc copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application OR a substitute computer readable form (CRF) copy of the "Sequence Listing". These two items must be the same. Applicant must also provide a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or

visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

PAULETTE R KIDWELL

Telephone: (703) 308-9140 EXT 216

PART 1 - ATTORNEY/APPLICANT COPY

	_	
U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/578,521	PCT/KR03/02407	50413015001

FORM PCT/DO/EO/922 (371 Formalities Notice)

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

 INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.4.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual - ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
 U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street,
 Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10 578,521
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in Patentln version 2.0 has caused the <20>-<223> section to be missing from amino acid sequences(s) Normally, Patentln would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <20>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220> <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid 213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Usc of <220>	Use of <220> to <273> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid
	116 71 1 1 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

AMC - Biotechnology Systems Branch - 09/09/2003



TRWP

RAW SEQUENCE LISTING DATE: 05/17/2006
PATENT APPLICATION: US/10/578,521 TIME: 10:12:56

Input Set : A:\50413.015001.txt

```
3 <110> APPLICANT: Chun, Jong-Yoon
      5 <120> TITLE OF INVENTION: Method for Amplifying Unknown DNA Sequence Adjacent to Known
              Sequence
      8 <130> FILE REFERENCE: 50413/015001
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/578,521
C--> 10 <141> CURRENT FILING DATE: 2006-05-08
     10 <150> PRIOR APPLICATION NUMBER: PCT/KR2003/002407
     11 <151> PRIOR FILING DATE: 2003-11-10
     13 <160> NUMBER OF SEQ ID NOS: 28
     15 <170> SOFTWARE: PatentIn version 3.3
                                                             N Corrected Diskette Neoded
     17 <210> SEQ ID NO: 1
     18 <211> LENGTH: 33
     19 <212> TYPE: DNA
     20 <213> ORGANISM: (Artificial Sequence)
                                                              material
     22 <220> FEATURE:
     23 <223> OTHER INFORMATION: DW-ACP1-A
     26 <220> FEATURE:
     27 <221> NAME/KEY: misc_feature
     28 <222> LOCATION: (22)..(28)
     29 <223> OTHER INFORMATION: n denotes deoxyinosine
                                                As explain source of genetic material
     31 <400> SEQUENCE: 1
W--> 32 tcacagaagt atgccaagcg annnnnnag gtc
     35 <210> SEQ ID NO: 2
     36 <211> LENGTH: 33
     37 <212> TYPE: DNA
     38 <213> ORGANISM: (Artificial Sequence
     40 <220> FEATURE:
     41 <223> OTHER INFORMATION: / DW-ACPI-C
     44 <220> FEATURE:
     45 <221> NAME/KEY: misc_feature
     46 <222> LOCATION: (22)..(28)
     47 <223> OTHER INFORMATION: n denotes deoxyinosine
     49 <400> SEQUENCE: 2
W--> 50 tcacagaagt atgccaageg annnnnneg gtc
                                                                               33
     53 <210> SEQ ID NO: 3
     54 <211> LENGTH: 33
     55 <212> TYPE: DNA
     56 <213> ORGANISM: Artificial Sequence
     58 <220> FEATURE:
     59 <223> OTHER INFORMATION: DW-ACP1-T
     62 <220> FEATURE:
     63 <221> NAME/KEY: misc_feature
     64 <222> LOCATION: (22)..(28)
file://C:\CRF4\Outhold\VsrJ578521.htm
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/578,521

DATE: 05/17/2006 TIME: 10:12:56

Input Set : A:\50413.015001.txt

Output Set: N:\CRF4\05172006\J578521.raw

```
errors
0 33 errors
     65 <223> OTHER INFORMATION: n denotes deoxyinosine
     67 <400> SEQUENCE: 3
W--> 68 tcacagaagt atgccaagcg annnnnnntg gtc
     71 <210> SEQ ID NO: 4
     72 <211> LENGTH: 33
     73 <212> TYPE: DNA
     74 <213> ORGANISM: Artificial Sequence
     76 <220> FEATURE:
     77 <223> OTHER INFORMATION: DW-ACP1-G
     80 <220> FEATURE:
     81 <221> NAME/KEY: misc_feature
     82 <222> LOCATION: (22)..(28)
     83 <223> OTHER INFORMATION: n denotes deoxyinosine
     85 <400> SEQUENCE: 4
W--> 86 tcacagaagt atgccaagcg annnnnnngg gtc
     89 <210> SEQ ID NO: 5
                                                                          See item
# 11 on
30 error
Summary
Sheeti
     90 <211> LENGTH: 33
     91 <212> TYPE: DNA
     92 <213> ORGANISM: Artificial Sequence
     94 <220> FEATURE:
     95 <223> OTHER INFORMATION: DW-ACP-2
     98 <220> FEATURE:
     99 <221> NAME/KEY: misc_feature
     100 <222> LOCATION: (26)..(29)
     101 <223> OTHER INFORMATION: n denotes deoxyinosine
     103 <400> SEQUENCE: 5
W--> 104 tcacagaagt atgccaagcg aggggnnnng gtc
     107 <210> SBQ ID NO: 6
     108 <211> LENGTH: 33
     109 <212> TYPE: DNA
     110 <213> ORGANISM: Artificial Sequence
     112 <220> FEATURE:
     113 <223> OTHER INFORMATION DW ACP2-NA
     116 <220> FEATURE:
     117 <221> NAME/KEY: misc_feature
     118 <222> LOCATION: (26)..(28)
     119 <223> OTHER INFORMATION: n denotes deoxyinosine
     121 <400> SEQUENCE: 6
W--> 122 tcacagaagt atgccaagcg aggggnnnag gtc
                                                                                 33
     125 <210> SEQ ID NO: 7
     126 <211> LENGTH: 33
     127 <212> TYPE: DNA
     128 <213> ORGANISM: Artificial Sequence
     130 <220> FEATURE:
     131 <223> OTHER INFORMATION: DW-ACP2-NC
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134 <220> FEATURE:

135 <221> NAME/KEY: misc_feature 136 <222> LOCATION: (26)..(28)

137 <223> OTHER INFORMATION: n denotes deoxyinosine

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/578,521

DATE: 05/17/2006 TIME: 10:12:56

Input Set : A:\50413.015001.txt

```
1 SAME
2 servors
     139 <400> SEQUENCE: 7
W--> 140 tcacagaagt atgccaagcg aggggnnncg gtc
     143 <210> SEQ ID NO: 8
     144 <211> LENGTH: 33
     145 <212> TYPE: DNA
     146 <213> ORGANISM: Artificial Sequence
     148 <220> FEATURE:
     149 <223> OTHER INFORMATION: DW-ACP2-NT
     152 <220> FEATURE:
     153 <221> NAME/KEY: misc_feature
     154 <222> LOCATION: (26)..(28)
     155 <223> OTHER INFORMATION: n denotes deoxyinosine
     157 <400> SEQUENCE: 8
W--> 158 tcacagaagt atgccaagcg aggggnnntg gtc
                                                                                 33
     161 <210> SEQ ID NO: 9
     162 <211> LENGTH: 33
     163 <212> TYPE: DNA
     164 <213> ORGANISM: Artificial Sequence
     166 <220> FEATURE:
     167 <223> OTHER INFORMATION: DW-ACP2-NG
     170 <220> FEATURE:
     171 <221> NAME/KBY: misc_feature
     172 <222> LOCATION: (26)..(28)
     173 <223> OTHER INFORMATION: n denotes deoxyinosine
     175 <400> SEQUENCE: 9
W--> 176 tcacagaagt atgccaagcg aggggnnngg gtc
                                                                                 33
     179 <210> SEQ ID NO: 10
     180 <211> LENGTH: 33
     181 <212> TYPE: DNA
     182 <213> ORGANISM: Artificial Sequence
     184 <220> FEATURE:
     185 <223 > OTHER INFORMATION: DW-ACP3-N1
     188 <220> FEATURE:
     189 <221> NAME/KEY: misc_feature
     190 <222> LOCATION: (22)..(25)
     191 <223> OTHER INFORMATION: n denotes deoxyinosine
     193 <400> SEQUENCE: 10
W--> 194 tcacagaagt atgccaagcg annnnggggg gtc
                                                                                 33
     197 <210> SEQ ID NO: 11
     198 <211> LENGTH: 33
     199 <212> TYPE: DNA
     200 <213> ORGANISM: Artificial Sequence
     202 <220> FEATURE:
     203 <223> OTHER INFORMATION / DW-ACP3-N2
     206 <220> FEATURE:
     207 <221> NAME/KEY: misc_feature
     208 <222> LOCATION: (23)..(26)
     209 <223> OTHER INFORMATION: n denotes deoxyinosine
     211 <400> SEQUENCE: 11
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/578,521

DATE: 05/17/2006 TIME: 10:12:56

Input Set : A:\50413.015001.txt

```
L's Same
LRKORS
W--> 212 tcacagaagt atgccaagcg agnnnngggg gtc
     215 <210> SEQ ID NO: 12
216 <211> LENGTH: 33
     217 <212> TYPB: DNA
     218 <213> ORGANISM: Artificial Sequence
     220 <220> FEATURE:
     221 <223 > OTHER INFORMATION DW-ACP3-N3
     224 <220> FEATURE:
     225 <221> NAMB/KBY: misc_feature
     226 <222> LOCATION: (24) ... (27)
     227 <223> OTHER INFORMATION: n denotes deoxyinosine
     229 <400> SEQUENCE: 12
W--> 230 tcacagaagt atgccaagcg aggnnnnggg gtc
                                                                                   33
     233 <210> SEQ ID NO: 13
     234 <211> LENGTH: 20
     235 <212> TYPB: DNA
     236 <213> ORGANISM: Artificial Sequence
     238 <220> FEATURE:
     239 <223> OTHER INFORMATION - Nested DW-P3-N
     241 <400> SEQUENCE: 13
     242 ccaagcgagg gggggggtc
                                                                                   20
     245 <210> SEQ ID NO: 14
     246 <211> LENGTH: 29
     247 <212> TYPE: DNA
     248 <213> ORGANISM: Artificial Segmence
     250 <220> FEATURE:
     251 <223> OTHER INFORMATION DW-P1-A
     254 <220> FEATURE:
     255 <221> NAME/KEY: misc_feature
     256 <222> LOCATION: (22)..(24)
     257 <223> OTHER INFORMATION: n is any base
     259 <400> SEQUENCE: 14
W--> 260 tcacagaagt atgccaagcg annnaggtc
                                                                                   29
     263 <210> SEQ ID NO: 15
     264 <211> LENGTH: 29
     265 <212> TYPE: DNA
     266 <213> ORGANISM: Artificial Sequence
     268 <220> FEATURE:
     269 <223> OTHER INFORMATION: DW-P1-C
     272 <220> FEATURE:
     273 <221> NAME/KEY: misc_featore
     274 <222> LOCATION: (22)..(24)
     275 <223> OTHER INFORMATION: n is any base
     277 <400> SEQUENCE: 15
W--> 278 tcacagaagt atgccaagcg annncggtc
                                                                                  29
     281 <210> SEQ ID NO: 16
     282 <211> LENGTH: 29
     283 <212> TYPE: DNA
     284 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/578,521

DATE: 05/17/2006 TIME: 10:12:56

Input Set : A:\50413.015001.txt

Output Set: N:\CRF4\05172006\J578521.raw

286 <220> FEATURE: 287 <223> OTHER INFORMATION: DW-P1-T 290 <220> FEATURE: 291 <221> NAME/KEY: misc_feature 292 <222> LOCATION: (22)..(24) 293 <223> OTHER INFORMATION: n is any base 295 <400> SEQUENCE: 16 W--> 296 tcacagaagt atgccaagcg annntggtc 29 299 <210> SEQ ID NO: 17 300 <211> LENGTH: 29 301 <212> TYPE: DNA 302 <213> ORGANISM: Artificial Sequence 304 <220> FEATURE: 305 <223> OTHER INFORMATION: DW-P1-G See item

29 # 11 on

error

Summy

29 Sheet, 308 <220> FEATURE: 309 <221> NAME/KEY: misc_feature 310 <222> LOCATION: (22)..(24) 311 <223> OTHER INFORMATION: n is any base 313 <400> SEQUENCE: 17 W--> 314 tcacagaagt atgccaagcg annngggtc 317 <210> SEQ ID NO: 18 318 <211> LENGTH: 29 319 <212> TYPE: DNA 320 <213> ORGANISM: Artificial Sequence 322 <220> FEATURE: 323 <223> OTHER INFORMATION: DW-P1 326 <220> FEATURE: 327 <221> NAME/KEY: misc_feature 328 <222> LOCATION: (22)..(25) 329 <223> OTHER INFORMATION: n is any base 331 <400> SEQUENCE: 18 W--> 332 tcacagaagt atgccaagcg annnnggtc 335 <210> SEQ ID NO: 19 336 <211> LENGTH: 21 337 <212> TYPE: DNA 338 <213> ORGANISM: Artificial Sequence 340 <220> FEATURE: 341 <223> OTHER INFORMATION: JYC3 343 <400> SEQUENCE: 19 344 tcacagaagt atgccaagcg a 21 347 <210> SEQ ID NO: 20 348 <211> LENGTH: 20 349 <212> TYPE: DNA 350 <213> ORGANISM: Artificial Sequence 352 <220> FEATURE: 353 <223> OTHER INFORMATION: mTNFa-C1 355 <400> SEQUENCE: 20 356 caccttgccc tgcccattag 20 359 <210> SEQ ID NO: 21 The type of errors shown exist throughout the Sequence Listing. Please check subsequent

sequences for similar errors.

file://C:\CRF4\Outhold\VsrJ578521.htm

5/17/2006

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/578,521

DATE: 05/17/2006 TIME: 10:12:57

Input Set : A:\50413.015001.txt

Output Set: N:\CRF4\05172006\J578521.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:1; N Pos. 22,23,24,25,26,27,28
Seq#:2; N Pos. 22,23,24,25,26,27,28
Seq#:3; N Pos. 22,23,24,25,26,27,28
Seq#:4; N Pos. 22,23,24,25,36,27,28
Seq#:5; N Pos. 26,27,28,29
Seq#:6; N Pos. 26,27,28
Seq#:7; N Pos. 26,27,28
Seq#:8; N Pos. 26,27,28
Seq#:9; N Pos. 26,27,28
Seq#:9; N Pos. 26,27,28
Seq#:10; N Pos. 22,23,24,25
Seq#:11; N Pos. 23,24,25,26
Seq#:12; N Pos. 24,25,26,27
Seq#:14; N Pos. 22,23,24
Seq#:15; N Pos. 22,23,24
Seq#:16; N Pos. 22,23,24
Seq#:16; N Pos. 22,23,24
Seq#:18; N Pos. 22,23,24
Seq#:18; N Pos. 22,23,24
Seq#:18; N Pos. 22,23,24
Seq#:18; N Pos. 22,23,24
Seq#:28; N Pos. 1,2,3,4,5,6
```

VERIFICATION SUMMARY

• • • • • •

PATENT APPLICATION: US/10/578,521

DATE: 05/17/2006 TIME: 10:12:57

Input Set : A:\50413.015001.txt

```
L:10 M:270 C: Current Application Number differs, Replaced Current Application No L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:32 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0

L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0

L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0

L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0

L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0

L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0

L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0

L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0

L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0

L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0

L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0

L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0

L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0

L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0

L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0

L:458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
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